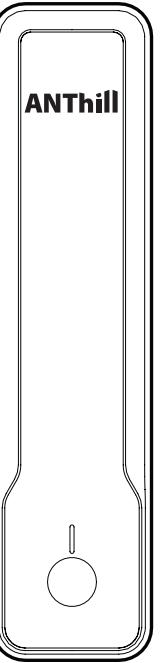


ANThill

User Guide



blacklinegps

Modification: 08 12, 2013 101333

01 PRIOR TO INSTALLATION

Information for each ANThill beacon must be entered into your Loner Portal Account to enable ANThill location reporting.

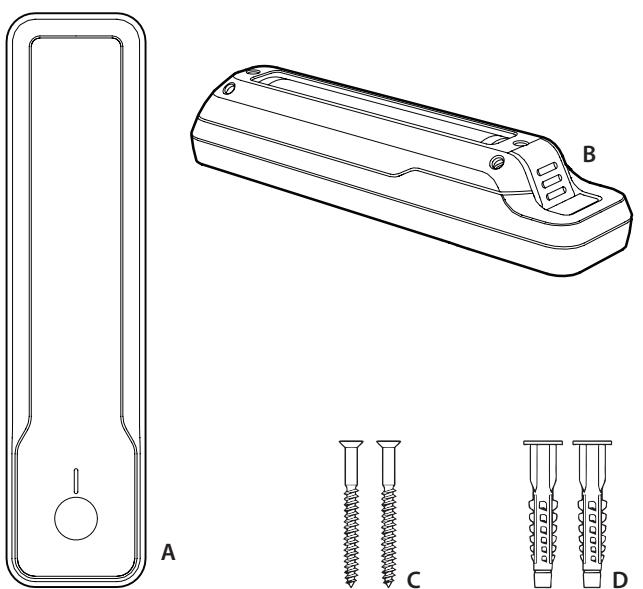
1. Log in to your Loner Portal account.
2. Go to Menu > select Activate a Device under the Account heading.
3. Select ANThill Beacon under the Choose a Device drop-down menu > enter the Unit ID and Activation Code found on the product label on the back of ANThill (see Hardware Details section).

Once ANThill has been activated, installation can commence.

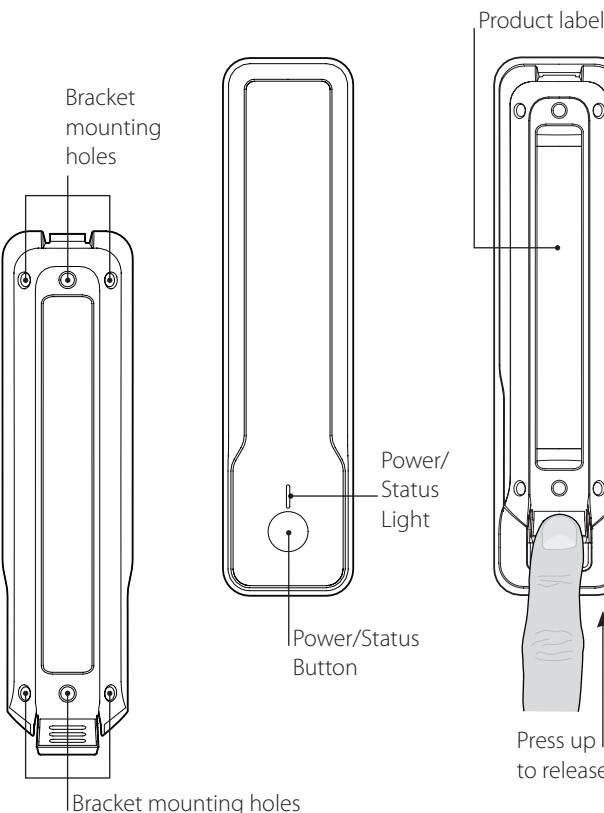
❖ **IMPORTANT** During installation, take care to note the Unit ID and location of each Beacon that you install.

PACKAGE CONTENTS

- A. ANThill Location Beacon
- B. ANThill Location Beacon Bracket (attached)
- C. 2 – #6 x 1" Screws
- D. 2 – Drywall anchors



HARDWARE DETAILS



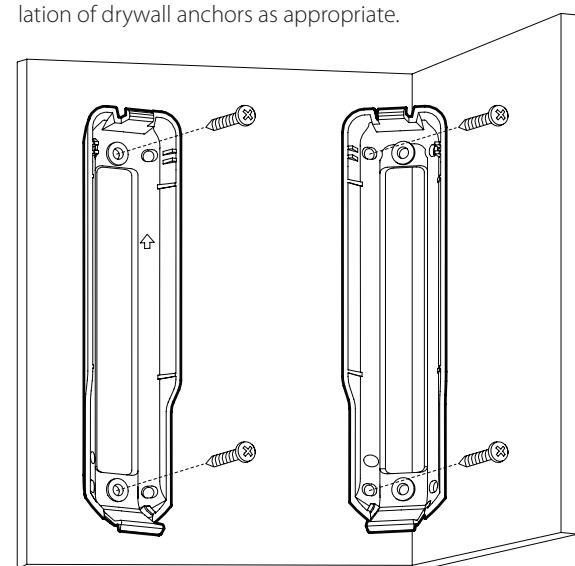
02 SUGGESTED INSTALLATION

Select an installation location

- ANThill beacon should be installed wherever GPS signals are unreliable or unavailable.
- By default ANThill will transmit in a radius of about 40 feet but range is dependent upon obstructions in the environment and mounting position.
- Beacons should be mounted as high in a room as practical with minimal obstructions to interfere with the wireless signal.
- Continuous coverage of an area is not a requirement, but it is beneficial.
- It is ok to have ANThill signals overlap. Only the strongest beacon signal will be used to identify a worker's location.
- Consider placing ANThill near circulation pinch-points like doorways, catwalks or gates.
- Ensure that areas with poor visual access are adequately covered. For example behind permanent equipment.
- Obstructions that are made of metal or concrete will reduce signal range compared to wooden structures.
- ❖ For more granular location awareness install more ANThill beacons operating at lower transmit power settings. See Transmit Power Settings

03a INSTALL THE BEACON

1. Remove the mounting bracket from ANThill.
2. Place the mounting bracket in the desired mounting location with indication arrow on the inside of the bracket pointing upward. Mark the position of two of the mounting holes.
3. Prepare the mounting surface with pilot holes and the installation of drywall anchors as appropriate.



❖ The ANThill bracket enables mounting on a wall or in a corner.

HOW ANTHILL BEACON SYSTEM WORKS

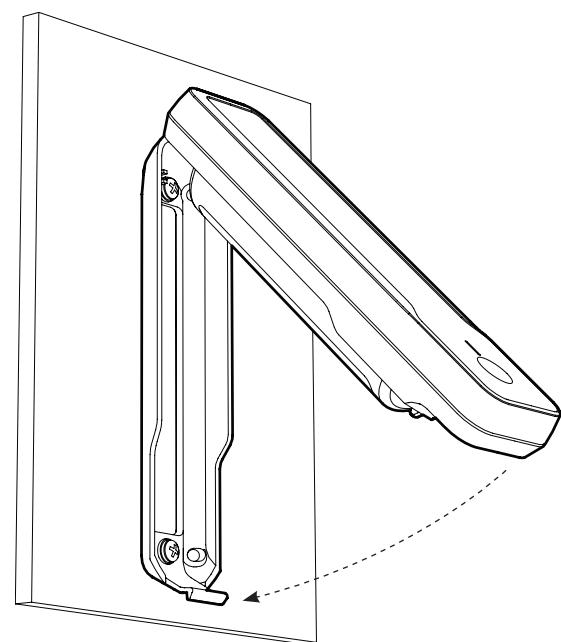
- The ANThill Location Beacon transmits a low energy message to compatible Loner® devices that are within range.
- Blackline Loner employee safety monitoring devices reports ANThill Location Beacon information back to the Loner Portal user account to indicate the user's location.
- ANThill has a default transmit radius of about 40 feet to 100 feet (transmit level 1), depending upon obstructions in the environment and mounting position.

ANThill Beacon prerequisites

- Pre-existing Loner Portal user account: loner.blacklinegps.com
- Beacon compatible Loner IS/SMD/IS Arctic safety monitoring device activated in the Loner Portal account.
- ANThill location information for each installed beacons added to the Loner account.

03b

4. Mount the bracket in place using the supplied screws.
5. Hook ANThill on the top of the mounting bracket and snap it onto place.



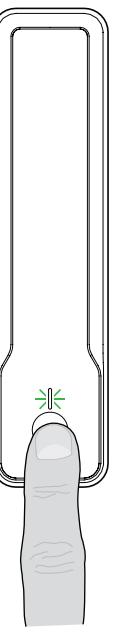
04 TURNING ON THE BEACON

ANTHill is shipped with batteries installed and powered off.

1. Press the Power/Status Button to turn on.
The Status Light will turn on. ANThill is now ready to use.

Green Status Light

Indicates normal operation.



Red Status Light – Flashing

Indicates a low battery.

Red Status Light – Solid

Indicates a fault.

- ❖ The status light sleeps 2 minutes after the last button press to conserve energy while in operation.

At any time, pressing the Power/Status Button will wake up the Status Light and it will remain on until going to sleep again.

To power off ANThill

1. Press and hold the Power/Status Button until the green status light turns off.

07 AFTER INSTALLATION

Assigning ANThill locations in Loner Portal

Once ANThill has been installed,

1. Log into your Loner Portal account.
2. Go to Menu > select Beacon Setup under the Features heading.
3. Add the following information for each activated ANThill:

Name

This should be a friendly name that identifies the location (e.g. Main Floor Entrance).

Site Address

This should be the street address of the nearest entrance to the site where the corresponding ANThill is installed.

Longitude & Latitude

This should represent the actual location of the installed ANThill as closely as possible. The pin on the map can be dragged to automatically calculate the longitude and latitude.

- ❖ **IMPORTANT** An effective response to an emergency situation depends upon the accuracy and completeness of this information.

05 TRANSMIT POWER SETTINGS

The Transmit power level affects the range of ANThill's signal. ANThill is shipped in the lowest transmit power setting which is appropriate for most installations.

To change the transmission power setting

1. Press and continue to hold the button on ANThill. The Status Light will turn on and then off. Continue to hold the button. The light will begin to blink in sets of flashes that indicate power levels.
2. Release the button on the set of flashes to program your desired power level. The Status Light will repeat the selected power setting 3 times before returning to normal operating mode.

The set of 2 flashes indicates the lowest power level and the set with 5 flashes indicates the highest power level. The sets will cycle from lowest to highest as you continue to hold the button.

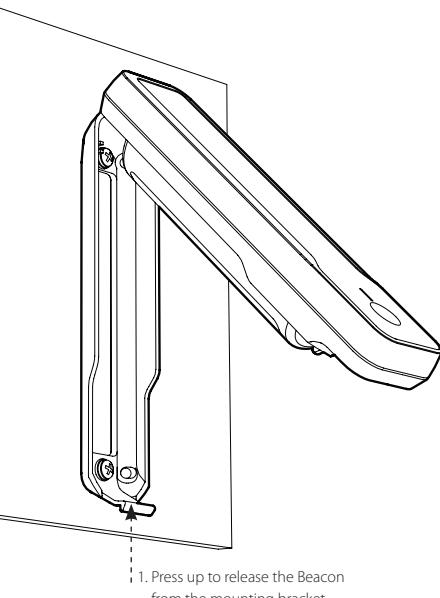
- ❖ The default ANThill transmit level is Level 2, that provides about 40 feet line of site coverage.



06a CHANGING BATTERIES

The ANThill's 2 C-cell batteries expected life is five years. When the Status Light flashes red every 30 seconds, the battery capacity is at 10% remaining and it is time to replace the batteries.

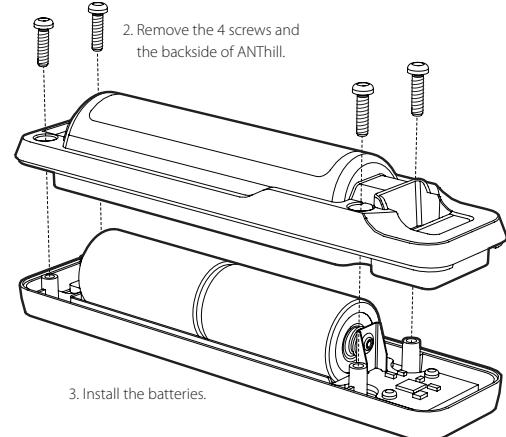
1. Remove ANThill from the mounting bracket.



- ❖ The Loner Portal account will provide a low battery indication for beacons that have been seen by Loner devices recently.

06b

2. Remove the 4 screws on the back of ANThill to remove the backside of the enclosure to access the batteries.
3. Install the batteries and reassemble ANThill. Battery orientation is indicated beneath the batteries on the inside of the front half of the enclosure.



❖ **IMPORTANT** Return ANThill to the same location that it was removed from.

❖ **IMPORTANT** Use only approved batteries to maintain intrinsic safety certification as mentioned in this guide.

Intrinsically Safe

This device is certified Intrinsically Safe for use in Class I, Division 1, Groups A-D hazardous (classified) locations.

Specifications:

Class I, Division 1, Groups A, B, C, D T4
Class I, Zone 0, Group IIC T4
-40°C <= Ta <= +55°C

This product is certified for use with the following batteries:

Duracell PC1400
Energizer LR14DP12
Rayovac ALC-12FP

WARNING: Use only approved batteries.

Consult with your organization's safety professional for further information regarding the topic of intrinsic safety and any policies, procedures, facilities, or locations within facilities that may be related to intrinsic safety.